

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW082021\  
 Data File : VW019834.D  
 Acq On : 20 Aug 2021 15:21  
 Operator : SY/VA  
 Sample : M3486-02  
 Misc : 7.18g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AW2

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM081821SMA.M  
 Title : SFAM01.0

Signal : TIC: VW019834.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.178       | 42            | 45          | 55           | rBV3     | 8005           | 14848         | 0.98%           | 0.128%        |
| 2         | 2.361       | 69            | 75          | 90           | rVB2     | 170613         | 341013        | 22.62%          | 2.938%        |
| 3         | 2.898       | 156           | 163         | 177          | rVV      | 100140         | 250256        | 16.60%          | 2.156%        |
| 4         | 3.038       | 180           | 186         | 200          | rVB      | 27478          | 71154         | 4.72%           | 0.613%        |
| 5         | 3.227       | 215           | 217         | 221          | rVB2     | 255            | 257           | 0.02%           | 0.002%        |
| 6         | 3.397       | 236           | 245         | 256          | rBV      | 25201          | 61758         | 4.10%           | 0.532%        |
| 7         | 3.586       | 275           | 276         | 281          | rVB2     | 204            | 222           | 0.01%           | 0.002%        |
| 8         | 3.672       | 288           | 290         | 292          | rBV      | 503            | 513           | 0.03%           | 0.004%        |
| 9         | 3.757       | 302           | 304         | 307          | rVB2     | 338            | 260           | 0.02%           | 0.002%        |
| 10        | 3.788       | 307           | 309         | 310          | rBV      | 216            | 140           | 0.01%           | 0.001%        |
| 11        | 3.916       | 327           | 330         | 331          | rBV2     | 140            | 159           | 0.01%           | 0.001%        |
| 12        | 4.025       | 336           | 348         | 372          | rVV      | 173191         | 529918        | 35.14%          | 4.566%        |
| 13        | 4.367       | 402           | 404         | 406          | rBV2     | 193            | 145           | 0.01%           | 0.001%        |
| 14        | 4.605       | 441           | 443         | 445          | rBV2     | 185            | 155           | 0.01%           | 0.001%        |
| 15        | 4.666       | 451           | 453         | 455          | rVB      | 210            | 213           | 0.01%           | 0.002%        |
| 16        | 4.690       | 455           | 457         | 458          | rBV      | 298            | 212           | 0.01%           | 0.002%        |
| 17        | 4.727       | 458           | 463         | 465          | rBV      | 222            | 274           | 0.02%           | 0.002%        |
| 18        | 4.800       | 472           | 475         | 477          | rBV2     | 189            | 228           | 0.02%           | 0.002%        |
| 19        | 4.922       | 484           | 495         | 525          | rVB6     | 22904          | 110780        | 7.35%           | 0.954%        |
| 20        | 5.129       | 527           | 529         | 532          | rBV2     | 267            | 350           | 0.02%           | 0.003%        |
| 21        | 5.306       | 557           | 558         | 561          | rBV      | 273            | 236           | 0.02%           | 0.002%        |
| 22        | 5.361       | 565           | 567         | 570          | rBV2     | 150            | 202           | 0.01%           | 0.002%        |
| 23        | 5.440       | 570           | 580         | 594          | rVB5     | 3866           | 13310         | 0.88%           | 0.115%        |
| 24        | 5.946       | 652           | 663         | 677          | rBV4     | 19167          | 56618         | 3.75%           | 0.488%        |
| 25        | 6.056       | 677           | 681         | 684          | rVB2     | 200            | 276           | 0.02%           | 0.002%        |
| 26        | 6.110       | 685           | 690         | 691          | rBV2     | 321            | 382           | 0.03%           | 0.003%        |
| 27        | 6.147       | 694           | 696         | 699          | rVB2     | 293            | 338           | 0.02%           | 0.003%        |
| 28        | 6.190       | 699           | 703         | 705          | rBV      | 210            | 264           | 0.02%           | 0.002%        |
| 29        | 6.403       | 736           | 738         | 739          | rVB      | 268            | 188           | 0.01%           | 0.002%        |
| 30        | 6.720       | 788           | 790         | 793          | rVB2     | 347            | 416           | 0.03%           | 0.004%        |
| 31        | 6.854       | 811           | 812         | 813          | rBV      | 448            | 261           | 0.02%           | 0.002%        |
| 32        | 6.885       | 815           | 817         | 819          | rVB2     | 454            | 311           | 0.02%           | 0.003%        |
| 33        | 6.988       | 825           | 834         | 842          | rBV2     | 19952          | 59762         | 3.96%           | 0.515%        |
| 34        | 7.080       | 842           | 849         | 864          | rVB      | 28239          | 76430         | 5.07%           | 0.659%        |
| 35        | 7.366       | 894           | 896         | 899          | rVB      | 219            | 143           | 0.01%           | 0.001%        |
| 36        | 7.464       | 911           | 912         | 915          | rBV2     | 161            | 158           | 0.01%           | 0.001%        |

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 ClientSampleId :  
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Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

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Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM081821SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 37 | 7.506  | 918  | 919  | 920  | rBV  | 217    | 140     | 0.01%   | 0.001%  |
| 38 | 7.537  | 921  | 924  | 925  | rBV  | 284    | 271     | 0.02%   | 0.002%  |
| 39 | 7.653  | 932  | 943  | 958  | rBV  | 255792 | 618744  | 41.03%  | 5.331%  |
| 40 | 7.958  | 981  | 993  | 1011 | rVB2 | 73911  | 207552  | 13.76%  | 1.788%  |
| 41 | 8.165  | 1019 | 1027 | 1034 | rBV4 | 5096   | 12287   | 0.81%   | 0.106%  |
| 42 | 8.281  | 1036 | 1046 | 1063 | rVB2 | 513265 | 1507886 | 100.00% | 12.992% |
| 43 | 8.433  | 1069 | 1071 | 1078 | rVB5 | 2751   | 4464    | 0.30%   | 0.038%  |
| 44 | 8.506  | 1079 | 1083 | 1089 | rVB6 | 1852   | 3792    | 0.25%   | 0.033%  |
| 45 | 8.579  | 1089 | 1095 | 1101 | rBV6 | 2555   | 5337    | 0.35%   | 0.046%  |
| 46 | 8.695  | 1108 | 1114 | 1123 | rVB2 | 14128  | 28057   | 1.86%   | 0.242%  |
| 47 | 8.768  | 1123 | 1126 | 1128 | rBV  | 240    | 239     | 0.02%   | 0.002%  |
| 48 | 8.848  | 1130 | 1139 | 1154 | rBV  | 571250 | 1124497 | 74.57%  | 9.689%  |
| 49 | 9.043  | 1169 | 1171 | 1172 | rBV2 | 482    | 331     | 0.02%   | 0.003%  |
| 50 | 9.079  | 1173 | 1177 | 1183 | rVB3 | 1085   | 1996    | 0.13%   | 0.017%  |
| 51 | 9.274  | 1200 | 1209 | 1215 | rBV  | 323797 | 661445  | 43.87%  | 5.699%  |
| 52 | 9.421  | 1231 | 1233 | 1235 | rVB2 | 309    | 258     | 0.02%   | 0.002%  |
| 53 | 9.524  | 1244 | 1250 | 1257 | rVV6 | 1565   | 3162    | 0.21%   | 0.027%  |
| 54 | 9.579  | 1257 | 1259 | 1261 | rVB2 | 372    | 313     | 0.02%   | 0.003%  |
| 55 | 9.756  | 1283 | 1288 | 1290 | rBV2 | 172    | 237     | 0.02%   | 0.002%  |
| 56 | 9.841  | 1300 | 1302 | 1305 | rBV2 | 181    | 173     | 0.01%   | 0.001%  |
| 57 | 9.902  | 1308 | 1312 | 1314 | rBV  | 487    | 555     | 0.04%   | 0.005%  |
| 58 | 9.957  | 1317 | 1321 | 1326 | rBV3 | 2936   | 5439    | 0.36%   | 0.047%  |
| 59 | 10.037 | 1327 | 1334 | 1341 | rBV  | 161487 | 286167  | 18.98%  | 2.466%  |
| 60 | 10.232 | 1364 | 1366 | 1367 | rBV  | 188    | 143     | 0.01%   | 0.001%  |
| 61 | 10.256 | 1367 | 1370 | 1372 | rVV  | 270    | 222     | 0.01%   | 0.002%  |
| 62 | 10.323 | 1373 | 1381 | 1387 | rVV  | 709751 | 1243001 | 82.43%  | 10.710% |
| 63 | 10.390 | 1387 | 1392 | 1401 | rVV  | 183834 | 326680  | 21.66%  | 2.815%  |
| 64 | 10.506 | 1404 | 1411 | 1416 | rVV3 | 9989   | 16355   | 1.08%   | 0.141%  |
| 65 | 10.579 | 1416 | 1423 | 1432 | rVB  | 100711 | 175155  | 11.62%  | 1.509%  |
| 66 | 10.707 | 1440 | 1444 | 1448 | rVB4 | 1663   | 2969    | 0.20%   | 0.026%  |
| 67 | 10.835 | 1463 | 1465 | 1466 | rBV2 | 286    | 178     | 0.01%   | 0.002%  |
| 68 | 10.927 | 1473 | 1480 | 1491 | rBV  | 95349  | 162390  | 10.77%  | 1.399%  |
| 69 | 11.177 | 1517 | 1521 | 1528 | rVB2 | 6334   | 10874   | 0.72%   | 0.094%  |
| 70 | 11.225 | 1528 | 1529 | 1534 | rVB3 | 295    | 258     | 0.02%   | 0.002%  |
| 71 | 11.305 | 1540 | 1542 | 1545 | rBV  | 222    | 180     | 0.01%   | 0.002%  |
| 72 | 11.341 | 1545 | 1548 | 1551 | rVV3 | 218    | 355     | 0.02%   | 0.003%  |
| 73 | 11.408 | 1553 | 1559 | 1566 | rVB8 | 1699   | 3412    | 0.23%   | 0.029%  |
| 74 | 11.512 | 1572 | 1576 | 1582 | rVB2 | 1330   | 1787    | 0.12%   | 0.015%  |
| 75 | 11.634 | 1588 | 1596 | 1606 | rVV  | 758456 | 1253715 | 83.14%  | 10.802% |
| 76 | 11.731 | 1606 | 1612 | 1619 | rVB  | 25651  | 43225   | 2.87%   | 0.372%  |

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 Misc : 7.18g/10mL/MSVOA\_W/SOIL  
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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AW2

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM081821SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 11.835 | 1622 | 1629 | 1639 | rBV  | 77080  | 139089 | 9.22%  | 1.198% |
| 78  | 12.164 | 1677 | 1683 | 1692 | rBV  | 27325  | 46369  | 3.08%  | 0.400% |
| 79  | 12.256 | 1696 | 1698 | 1701 | rVB4 | 417    | 237    | 0.02%  | 0.002% |
| 80  | 12.390 | 1714 | 1720 | 1727 | rVB3 | 1494   | 3011   | 0.20%  | 0.026% |
| 81  | 12.463 | 1727 | 1732 | 1739 | rBV2 | 3740   | 6127   | 0.41%  | 0.053% |
| 82  | 12.567 | 1747 | 1749 | 1750 | rBV  | 280    | 196    | 0.01%  | 0.002% |
| 83  | 12.591 | 1750 | 1753 | 1760 | rVB5 | 1227   | 2494   | 0.17%  | 0.021% |
| 84  | 12.695 | 1763 | 1770 | 1777 | rBV  | 200434 | 333576 | 22.12% | 2.874% |
| 85  | 12.804 | 1784 | 1788 | 1793 | rVB  | 5717   | 7914   | 0.52%  | 0.068% |
| 86  | 12.865 | 1793 | 1798 | 1802 | rBV2 | 7768   | 12395  | 0.82%  | 0.107% |
| 87  | 12.938 | 1807 | 1810 | 1817 | rVB3 | 5923   | 9824   | 0.65%  | 0.085% |
| 88  | 13.103 | 1833 | 1837 | 1843 | rBV2 | 2418   | 3668   | 0.24%  | 0.032% |
| 89  | 13.249 | 1856 | 1861 | 1867 | rVB  | 9217   | 14425  | 0.96%  | 0.124% |
| 90  | 13.365 | 1877 | 1880 | 1881 | rBV2 | 1430   | 1463   | 0.10%  | 0.013% |
| 91  | 13.499 | 1900 | 1902 | 1904 | rBV  | 449    | 272    | 0.02%  | 0.002% |
| 92  | 13.560 | 1904 | 1912 | 1921 | rBV  | 585824 | 948216 | 62.88% | 8.170% |
| 93  | 13.755 | 1940 | 1944 | 1947 | rBV4 | 2387   | 3421   | 0.23%  | 0.029% |
| 94  | 13.853 | 1953 | 1960 | 1970 | rVB  | 463703 | 748091 | 49.61% | 6.446% |
| 95  | 14.200 | 2013 | 2017 | 2023 | rVB7 | 1423   | 2759   | 0.18%  | 0.024% |
| 96  | 14.517 | 2063 | 2069 | 2075 | rBV4 | 3519   | 6203   | 0.41%  | 0.053% |
| 97  | 14.956 | 2137 | 2141 | 2145 | rBV4 | 3437   | 5292   | 0.35%  | 0.046% |
| 98  | 15.011 | 2148 | 2150 | 2152 | rVB2 | 297    | 224    | 0.01%  | 0.002% |
| 99  | 15.548 | 2234 | 2238 | 2245 | rVB4 | 2542   | 4160   | 0.28%  | 0.036% |
| 100 | 15.725 | 2265 | 2267 | 2269 | rBV2 | 579    | 588    | 0.04%  | 0.005% |

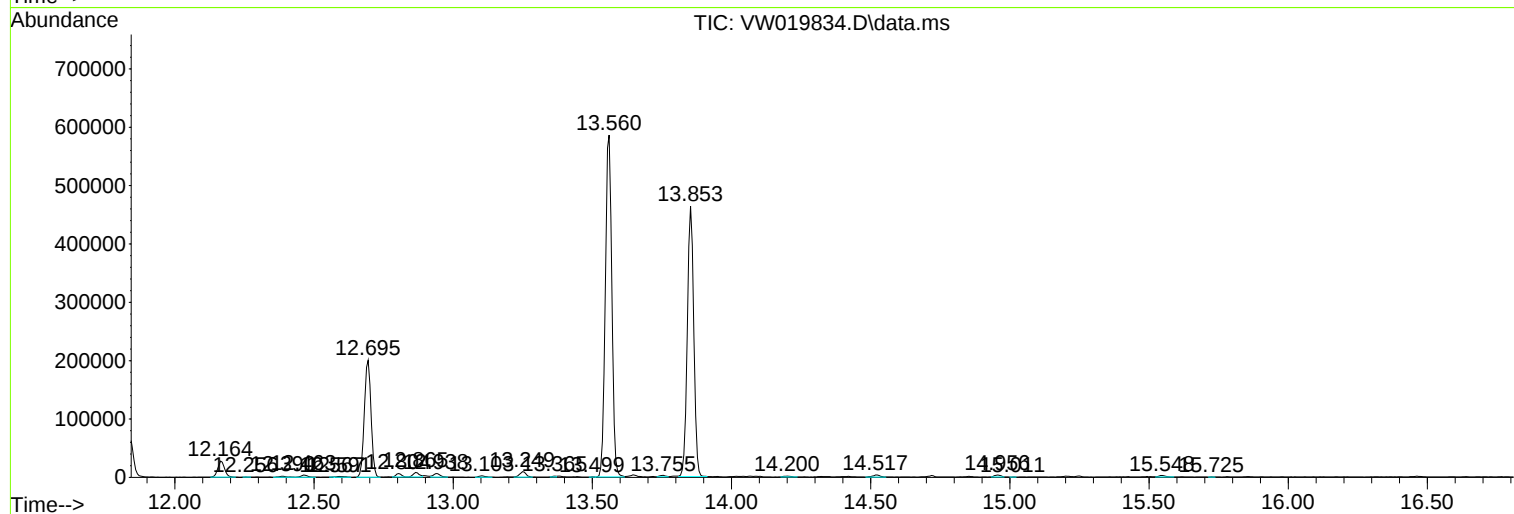
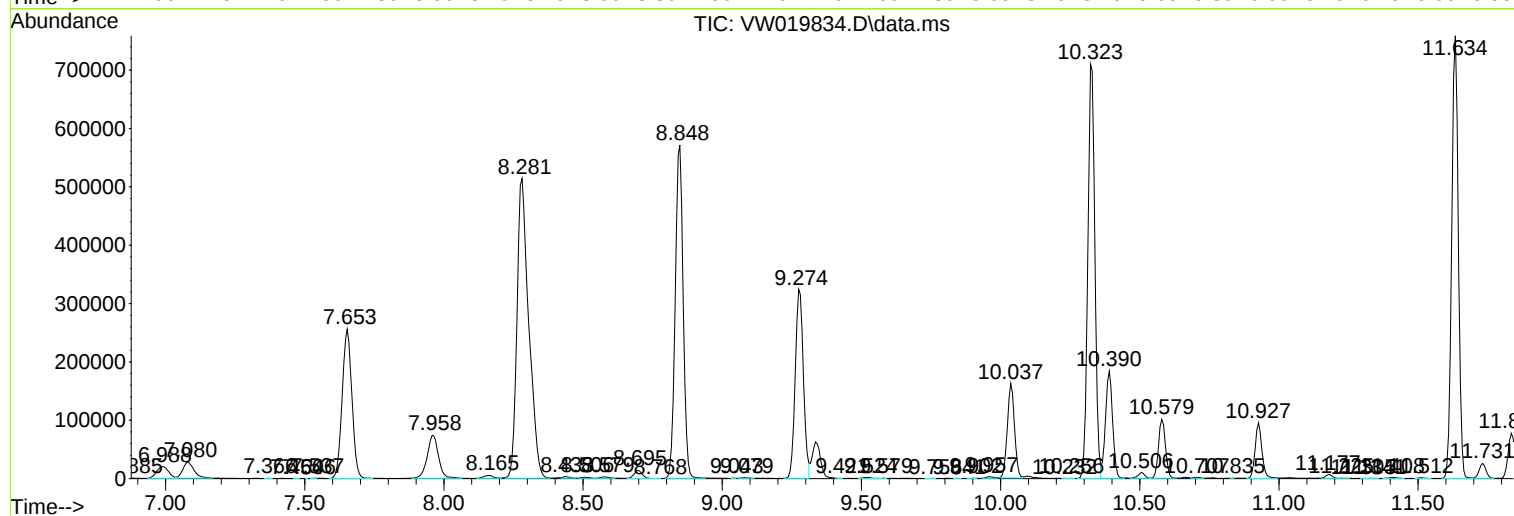
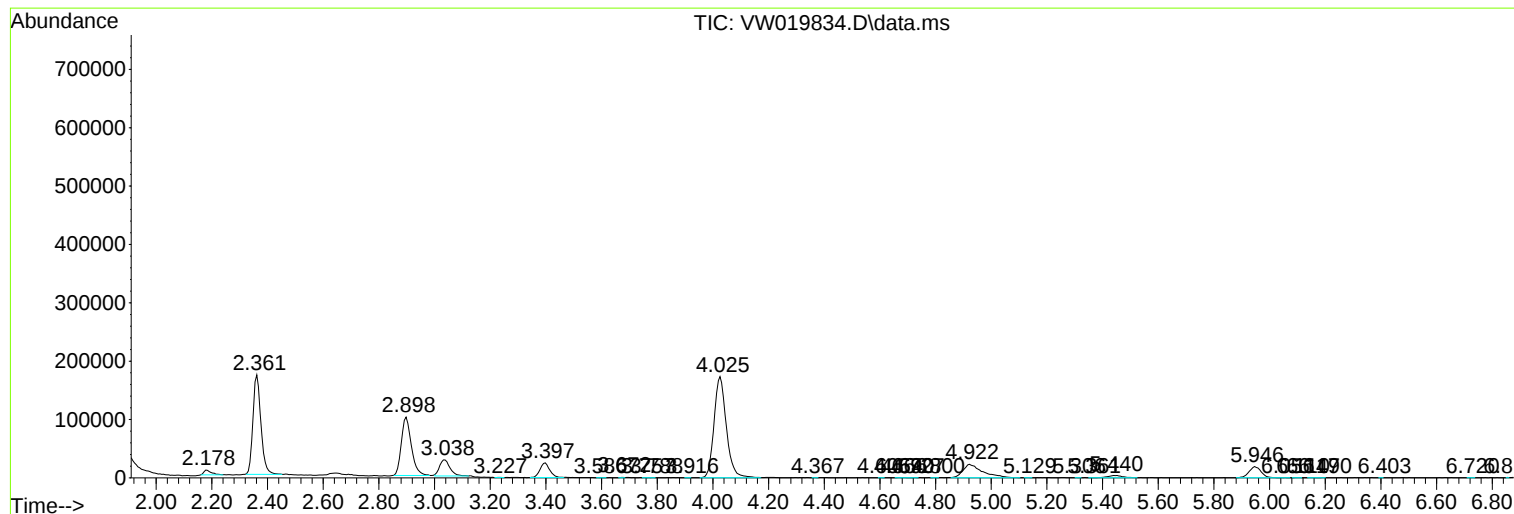
Sum of corrected areas: 11606405

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Instrument :  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM081821SMA.M  
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



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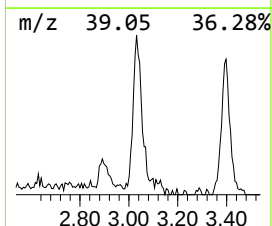
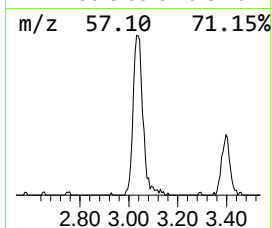
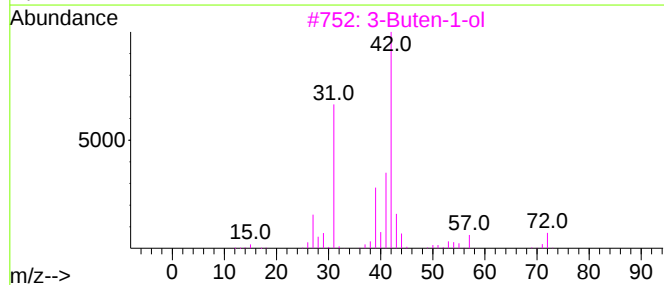
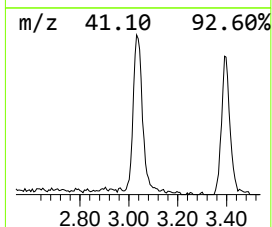
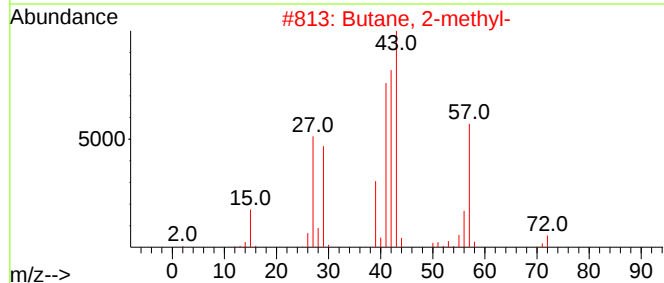
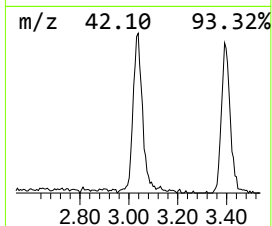
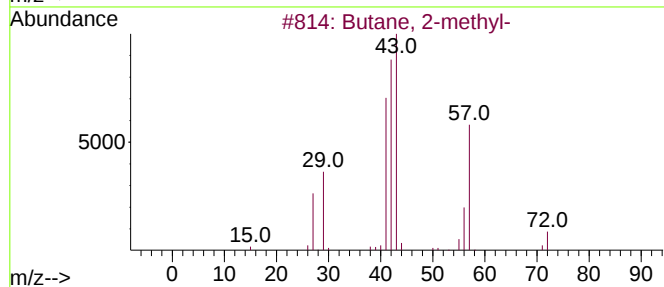
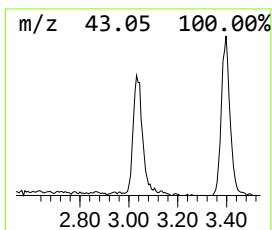
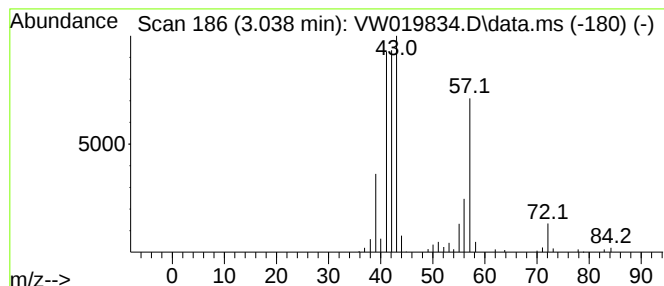
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM081821SMA.M  
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 3.038 | 1.58 ug/L | 71154 | 1,4-Difluorobenzene | 8.848 |

| Hit# | of                | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|-------------------|---|--------------|----|---------|-------------|------|
| 1    | Butane, 2-methyl- |   |              | 72 | C5H12   | 000078-78-4 | 90   |
| 2    | Butane, 2-methyl- |   |              | 72 | C5H12   | 000078-78-4 | 78   |
| 3    | 3-Buten-1-ol      |   |              | 72 | C4H8O   | 000627-27-0 | 43   |
| 4    | Pentane           |   |              | 72 | C5H12   | 000109-66-0 | 40   |
| 5    | Pentane           |   |              | 72 | C5H12   | 000109-66-0 | 36   |



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Quant Title : SFAM01.0

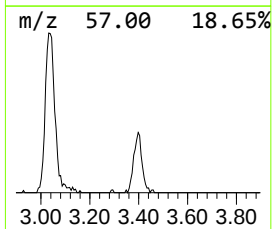
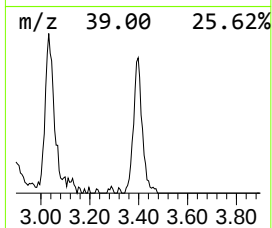
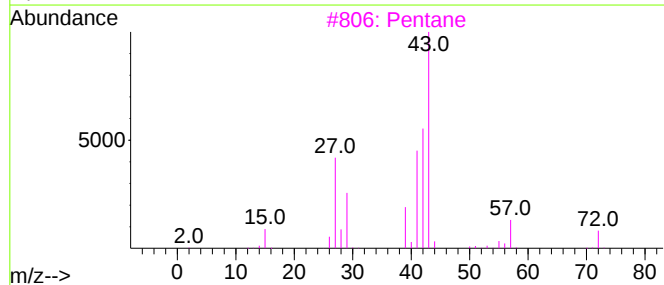
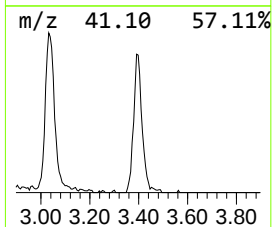
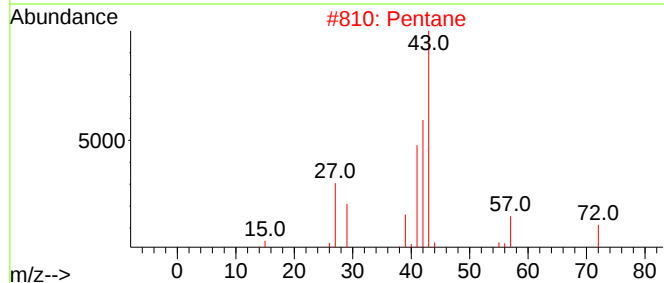
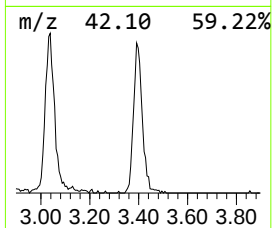
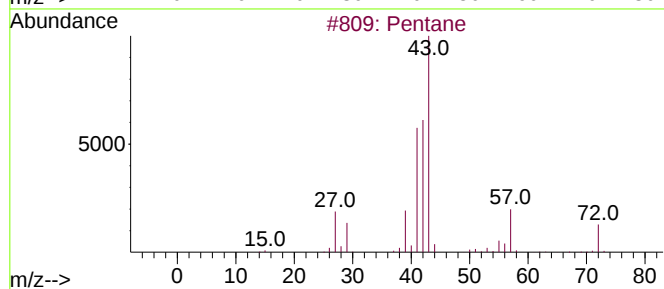
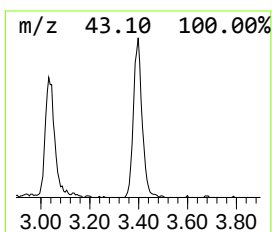
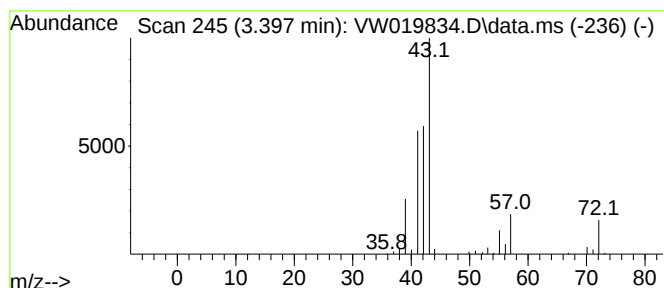
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 3.397 | 1.37 ug/L | 61758 | 1,4-Difluorobenzene | 8.848 |

| Hit# | of      | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|---------|---|--------------|----|---------|-------------|------|
| 1    | Pentane |   |              | 72 | C5H12   | 000109-66-0 | 91   |
| 2    | Pentane |   |              | 72 | C5H12   | 000109-66-0 | 86   |
| 3    | Pentane |   |              | 72 | C5H12   | 000109-66-0 | 78   |
| 4    | Pentane |   |              | 72 | C5H12   | 000109-66-0 | 72   |
| 5    | Pentane |   |              | 72 | C5H12   | 000109-66-0 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW082021\  
Data File : VW019834.D  
Acq On : 20 Aug 2021 15:21  
Operator : SY/VA  
Sample : M3486-02  
Misc : 7.18g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AW2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM081821SMA.M  
Quant Title : SFAM01.0

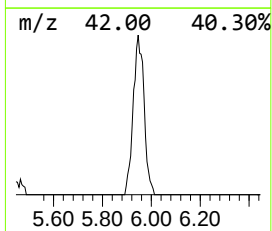
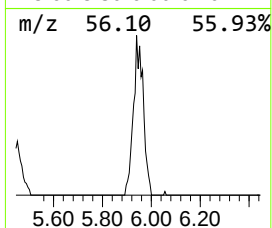
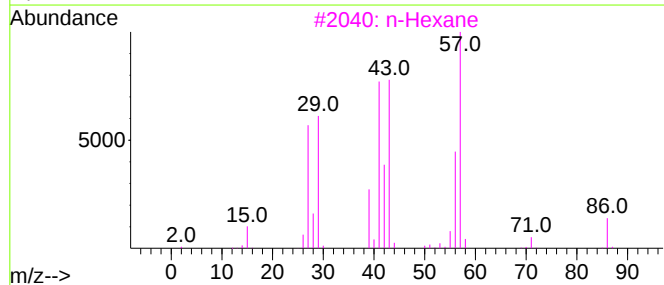
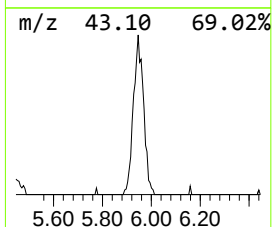
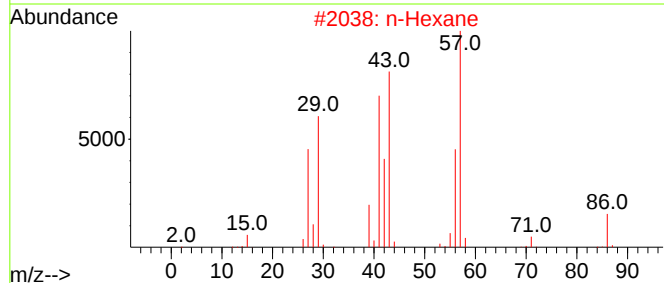
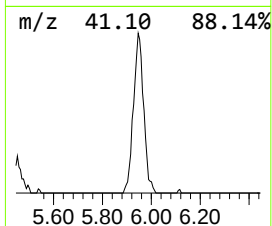
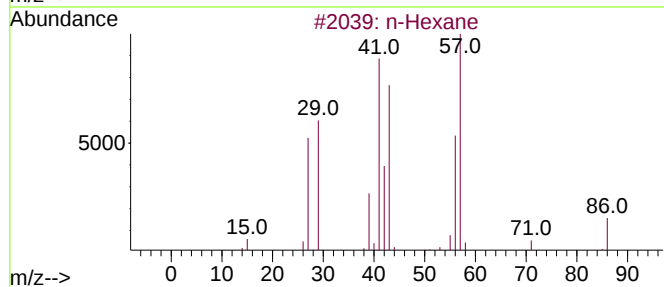
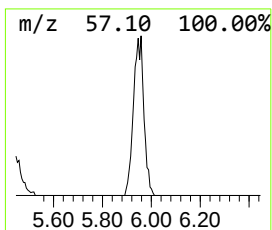
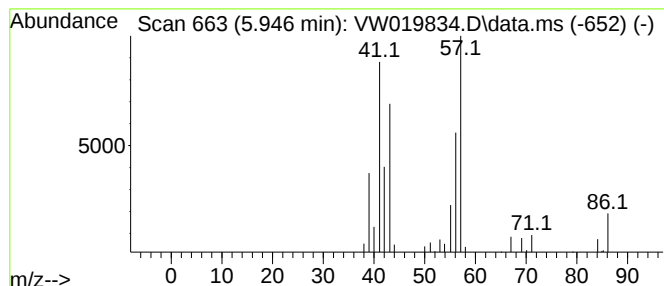
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 5.946 | 1.26 ug/L | 56618 | 1,4-Difluorobenzene | 8.848 |

| Hit# | of 5 | Tentative ID                | MW | MolForm | CAS#        | Qual |
|------|------|-----------------------------|----|---------|-------------|------|
| 1    |      | n-Hexane                    | 86 | C6H14   | 000110-54-3 | 86   |
| 2    |      | n-Hexane                    | 86 | C6H14   | 000110-54-3 | 80   |
| 3    |      | n-Hexane                    | 86 | C6H14   | 000110-54-3 | 64   |
| 4    |      | n-Hexane                    | 86 | C6H14   | 000110-54-3 | 52   |
| 5    |      | Furan, tetrahydro-3-methyl- | 86 | C5H10O  | 013423-15-9 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW082021\  
Data File : VW019834.D  
Acq On : 20 Aug 2021 15:21  
Operator : SY/VA  
Sample : M3486-02  
Misc : 7.18g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AW2

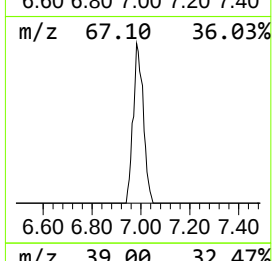
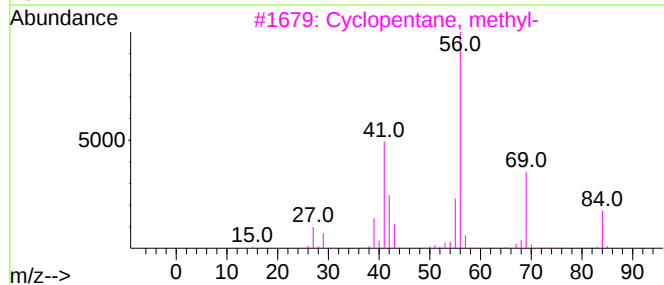
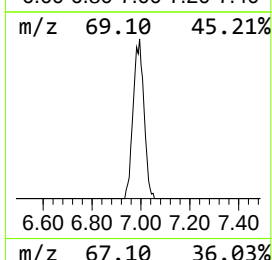
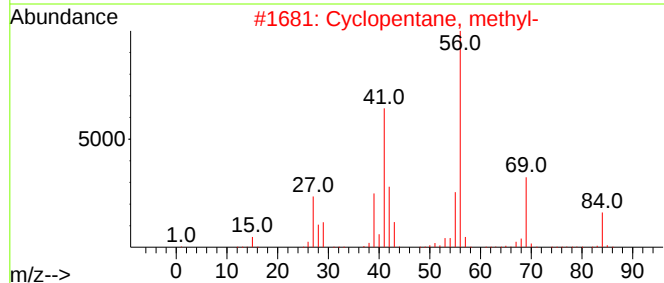
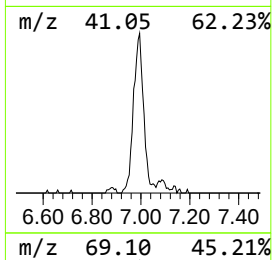
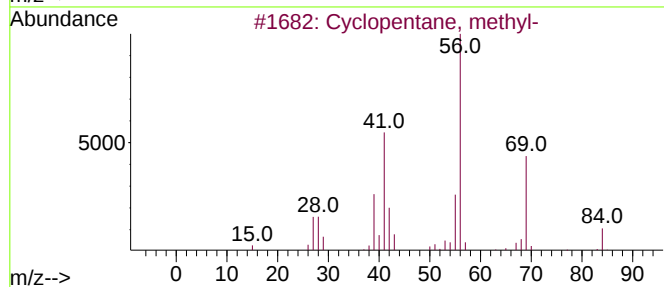
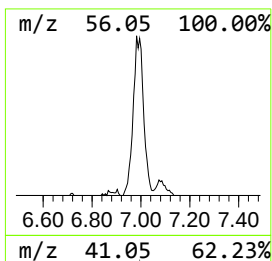
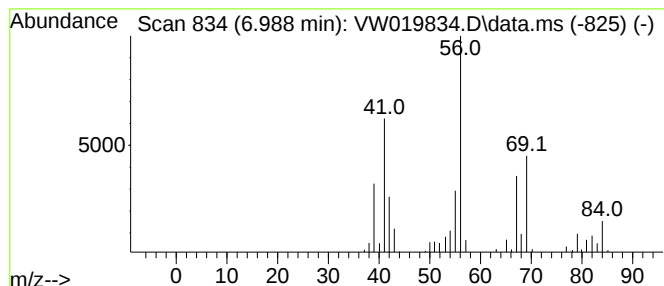
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Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Cyclic6.988 Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 6.988 | 1.33 ug/L | 59762 | 1,4-Difluorobenzene | 8.848 |

| Hit# | of 5 | Tentative ID          | MW | MolForm | CAS#        | Qual |
|------|------|-----------------------|----|---------|-------------|------|
| 1    |      | Cyclopentane, methyl- | 84 | C6H12   | 000096-37-7 | 74   |
| 2    |      | Cyclopentane, methyl- | 84 | C6H12   | 000096-37-7 | 64   |
| 3    |      | Cyclopentane, methyl- | 84 | C6H12   | 000096-37-7 | 64   |
| 4    |      | Cyclohexane           | 84 | C6H12   | 000110-82-7 | 64   |
| 5    |      | Cyclohexane           | 84 | C6H12   | 000110-82-7 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW082021\  
Data File : VW019834.D  
Acq On : 20 Aug 2021 15:21  
Operator : SY/VA  
Sample : M3486-02  
Misc : 7.18g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AW2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM081821SMA.M  
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                    |       |         |       |          | #                     | RT    | Resp    | Conc |
| (DEL) Alkane: S... | 3.038 | 1.6     | ug/L  | 71154    | 1                     | 8.848 | 1124500 | 25.0 |
| (DEL) Alkane: S... | 3.397 | 1.4     | ug/L  | 61758    | 1                     | 8.848 | 1124500 | 25.0 |
| (DEL) Alkane: S... | 5.946 | 1.3     | ug/L  | 56618    | 1                     | 8.848 | 1124500 | 25.0 |
| (DEL) Alkane: C... | 6.988 | 1.3     | ug/L  | 59762    | 1                     | 8.848 | 1124500 | 25.0 |